

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 – 8. (canceled)

9. (original) A computer-implemented method for multi-level memory domain protection, comprising the steps of:

 creating a domain process context, having an operating system code executing within a first protection level, a domain code executing within a second protection level, and a user code residing within the second protection level;

 creating a user process context, having the operating system code executing within the first protection level, a non-executable reserved portion, and the user code executing within the second protection level; and

 protecting the domain code from the user code by locating the domain code in the non-executable reserved portion.

10 - 14. (canceled)

15. (original) A system for multi-level memory domain protection, the system comprising:

means for creating a domain process context, having an operating system code executing within a first protection level, a domain code executing within a second protection level, and a user code residing within the second protection level;

means for creating a user process context, having the operating system code executing within the first protection level, a non-executable reserved portion, and the user code executing within the second protection level;

and

means for protecting the domain code from the user code by locating the domain code in the non-executable reserved portion.

16 – 18. (canceled)

19. (original) A computer-useable medium embodying computer-readable program code for causing a computer to perform multi-level memory domain protection by performing the steps of:

creating a domain process context, having an operating system code executing within a first protection level, a domain code executing within a second protection level, and a user code residing within the second protection level;

creating a user process context, having the operating system code executing within the first protection level, a non-executable reserved portion, and the user code executing within the second protection level; and

protecting the domain code from the user code by locating the domain code in the non-executable reserved portion.

20 – 27. (canceled)

28. (previously presented) A computer-implemented method for multi-level memory domain protection, comprising:

- establishing a user process context for a user code;
- establishing a domain process context for a domain code; and
- protecting the domain code, executing at a protection level, from the user code, executing at the protection level, by context switching between the user process context and the domain process context,

wherein the user context process has a non-executable reserve portion in which the domain code is located.

29. (previously presented) A system for multi-level memory domain protection comprising:

- a user process context for a user code;
- a domain process context for a domain code; and
- a protection that protects the domain code, executing at a protection level, from the user code, executing at the protection level, by context switching between the user process context and the domain process context,

wherein the user context process has a non-executable reserve portion in which the domain code is located.

30. (previously presented) A computer-readable medium embodying computer-readable program code for causing a computer to perform multi-level memory domain protection by performing the process of:
establishing a user process context for a user code;
establishing a domain process context for a domain code; and
protecting the domain code, executing at a protection level, from the user code, executing at the protection level, by context switching between the user process context and the domain process context, wherein the user context process has a non-executable reserve portion in which the domain code is located.

31. (previously presented) A computer-implemented method for multi-level memory domain protection, comprising:
protecting a domain code, executing at a protection level, from a user code, executing at the protection level, by context switching to establish two levels of protection within said protection level.

32. (previously presented) A computer-implemented method for multi-level memory domain protection, comprising:
executing calling-code in a first process pair calling for execution of targeted code in a second process pair; and
inter-group context switching from the first process pair to the second process pair, wherein the inter-group context switching establishes two levels of protection within said protection level.

33. (previously presented) A system for multi-level memory domain protection comprising:
a protection that protects a domain code, executing at a protection level, from a user code, executing at the protection level, formed by context switching to establish two levels of protection within said protection level.

34. (previously presented) A computer-readable medium embodying computer-readable program code for causing a computer to perform multi-level memory domain protection by performing the process of:
protecting a domain code executing at a protection level, from a user code, executing at the protection level, by context switching to establish two levels of protection within said protection level.

35. (previously presented) A system for multi-level memory domain protection comprising:
a protection that protects a domain code, executing at a protection level, from a user code, executing at the protection level, formed by context switching to establish two levels of protection within said protection level.